Potrero Power Plant - Offshore Sediment Area Remediation Project

Bay Conservation and Development Commission

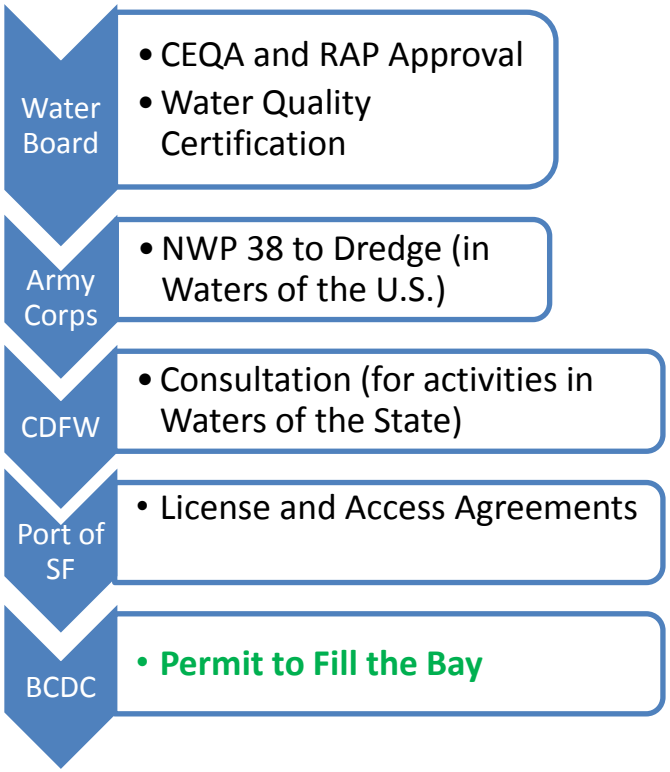
Commission Hearing on M2017.05-003

21 February 2019

Potrero Power Plant – Areas of Concern

Inter-Agency Permitting Process

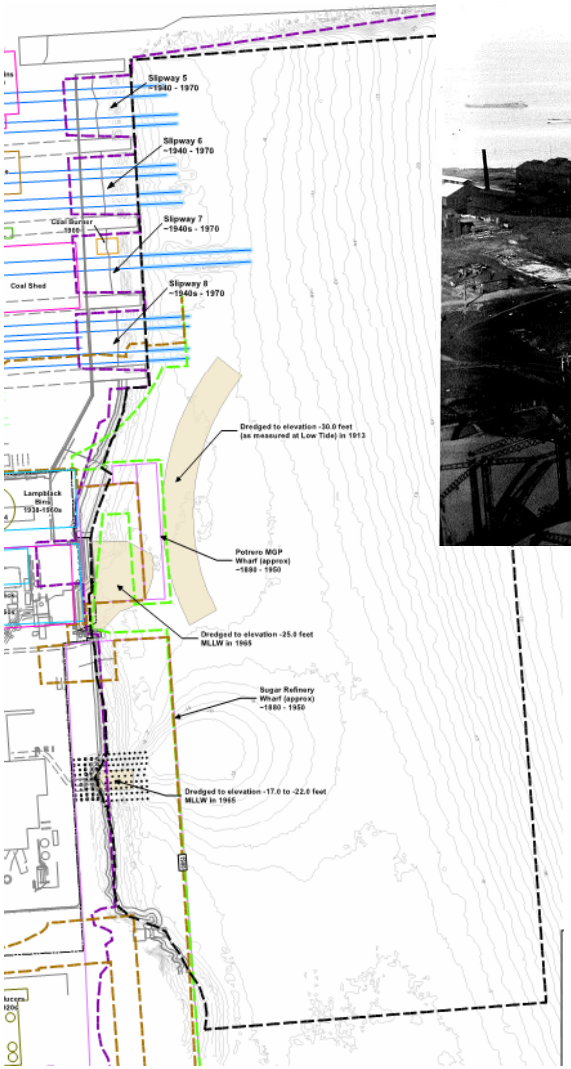
- Early Buy-in on Remedial Design
- Collaborative Inter-Agency Process



Inter-Agency Group Begun Working in 2009

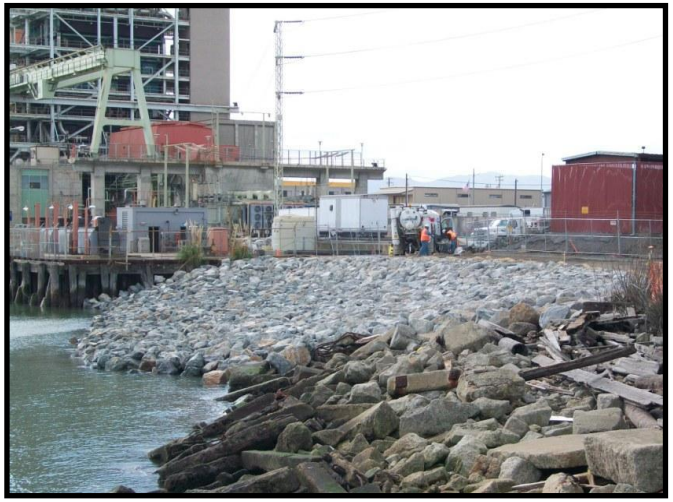
- **Water Board**
- **Port of SF**
- **EPA**
- **BCDC**
- **CDFW**
- **NOAA/NMFS**
- **USACE**
- **SFDPH**

Site History - Over a Century of Industrial Activity



Above - MGP Operations in the early 1900s

Below – Former Power Plant and Revetment Area (foreground)



- **1872 to 1930 – Historical fill**
- **PG&E operated MGP 1906 to 1930**
- **1883 to 1950 – Sugar Refining**
- **1910 to 1960s – Station A Power Generation**
- **1965 to 2011 – Power Plant Unit 3 Operations**
- **1999 – PG&E sold the Power Plant**

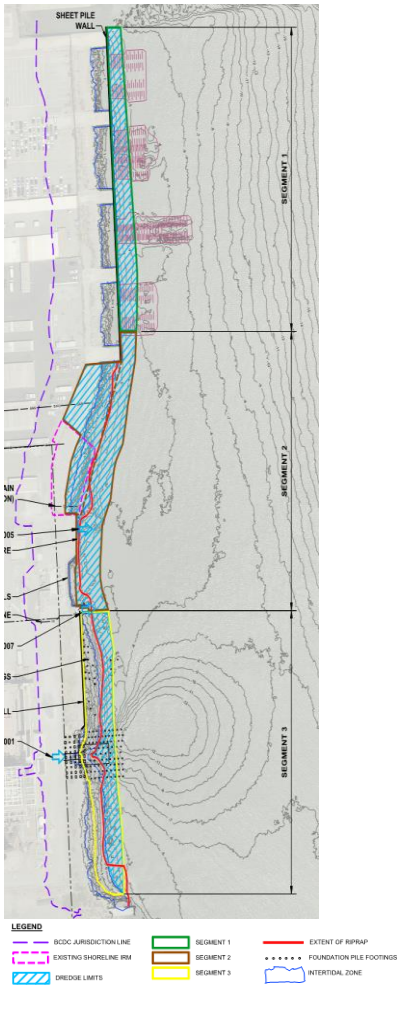
Remedial Action Objectives

- Mitigate the potential for exposure of fish to PAHs that bioaccumulate in sediment organisms at concentrations greater than in the Ambient Area organisms
- Mitigate potential future exposure of humans to impacted sediment within areas accessible to wading

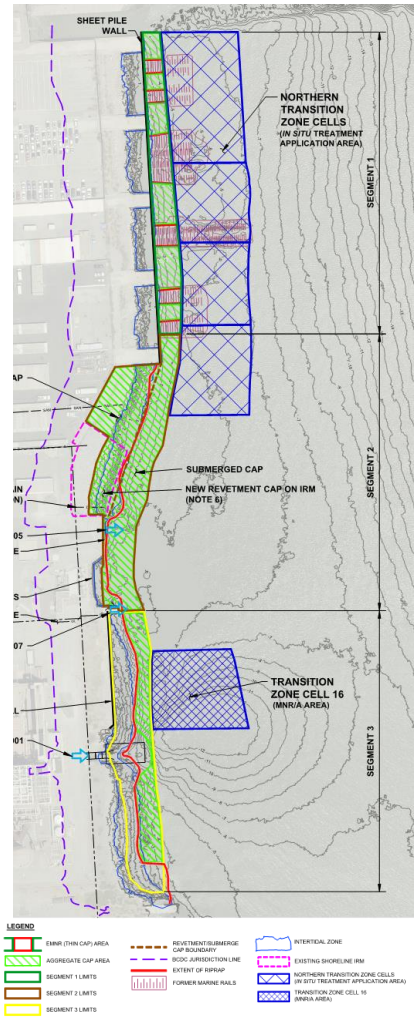
Remnant of Spreckle's Sugar Refinery Wharf

Remediation Activities

Dredge Areas



Cap/*In Situ*/MNRA Areas



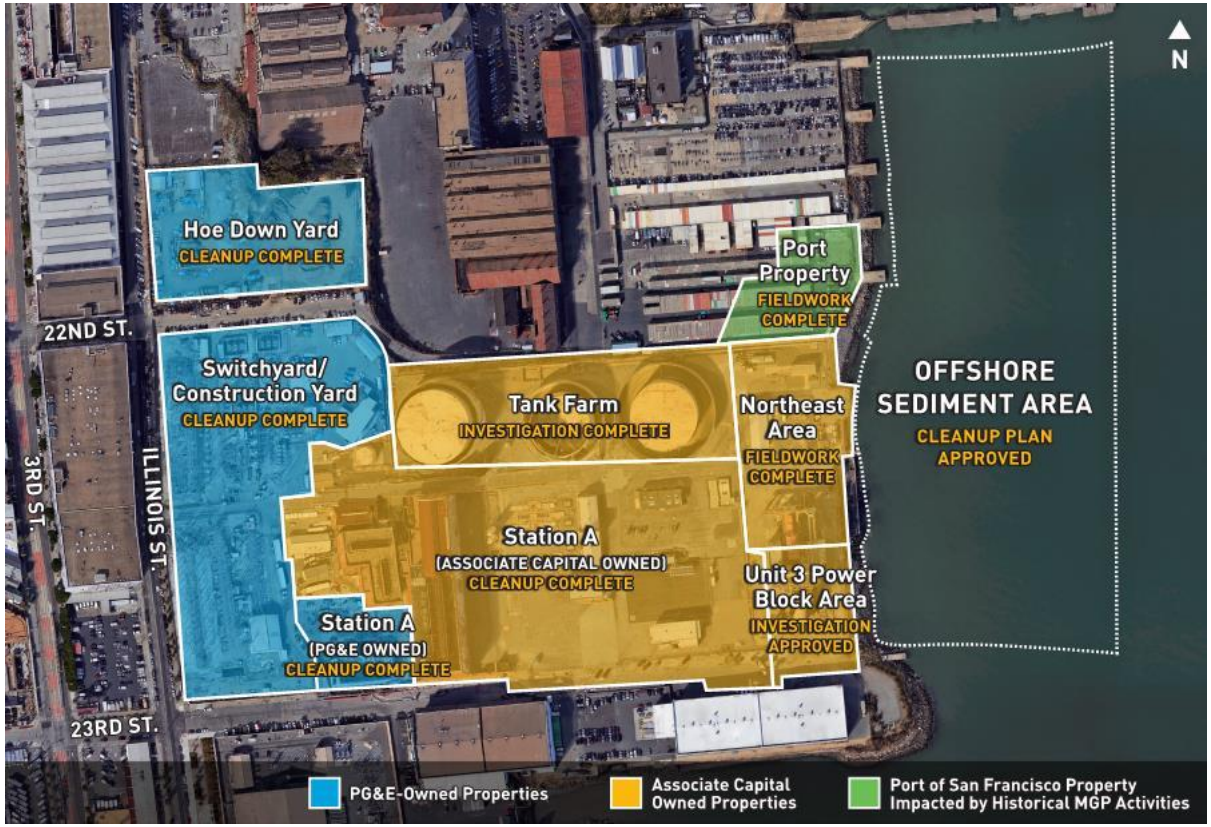
- **Dredge and Cap by Segment**
  - **Segment 1 – ~ 2 to 3 ft over 20,324 SF**
  - **Segment 2 – ~5 to 7 ft over 31,278 SF**
  - **Segment 3 – ~2 to 3 ft over 12,357 SF**
- ***In Situ* Treatment**
  - **Addition of activated carbon amendment of less than 2-in thickness over 74,275 SF**
- **Monitored Natural Recovery/Attenuation**
  - **Allow natural capping in Cell 16 over 18,731 SF**

Project Implementation

- Work Window – June 1 to Nov 30
  - 2019 Construction Window
- Resource Monitoring During Construction
  - Turbidity controls and water quality monitoring
- Long term Monitoring - RRMP
  - Cap stability and erosion
  - MNR/A progress
  - *In situ* treatment and MNR/A monitoring for bioaccumulation

Use of environmental bucket within turbidity curtains

Project Benefits



- Overall Net Benefit to the Environment
- No Net Fill
- Minimizes disturbance of health benthic communities
- Cap design promotes natural depositional processes and recolonization of native benthic organisms
- Reduces risk to future shoreline users
- Allows for future shoreline improvements

THANK YOU

Q&A